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☐ 1. Document ID: US 4308310 A Relevance Rank: 52

L1: Entry 8 of 8 File: USPT Dec 29, 1981

US-PAT-NO: 4308310
DOCUMENT-IDENTIFIER: US 4308310 A

TITLE: Dry transfer decal

DATE-ISSUED: December 29, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arnold; Kevin R.	Unionville	PA	N/A	N/A
Arnold; Raymond M.	West Chester	PA	N/A	N/A

US-CL-CURRENT: 428/195; 156/240, 156/249, 156/277, 427/265, 428/352, 428/353, 428/354, 428/914

ABSTRACT:

A dry transfer decal includes a flexible carrier layer as a substrate with a high adhesion characteristic urethane layer on the substrate. Ink layers are printed on the urethane layer and a high tack adhesive is screened over the printed ink layers. The decal may be transferred from the substrate to a surface by applying a local pressure through the substrate on the decal thereby impinging the decal onto the surface. Specific formulations for the urethane layer and the various ink layers are disclosed.

6 Claims, 3 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Drawi Desc | Image

☐ 2. Document ID: US 4919994 A Relevance Rank: 52

L1: Entry 7 of 8 File: USPT Apr 24, 1990

US-PAT-NO: 4919994
DOCUMENT-IDENTIFIER: US 4919994 A

TITLE: Dry transfer graphics article and methods of preparation and use thereof

DATE-ISSUED: April 24, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Incremona; Joseph H.	Stillwater	MN	N/A	N/A
Lundeen; Richard H.	Woodbury	MN	N/A	N/A

US-CL-CURRENT: 428/141; 156/234, 156/239, 156/240, 156/277, 428/201, 428/202, 428/207, 428/211, 428/352, 428/353, 428/354, 428/454, 428/914

ABSTRACT:

A dry transfer graphics article and methods of preparation and use thereof are provided. The article is self-weeding to transfer fine graphic images without the use of detackifying radiation, solvents, etc. One of the elements of the article is a carrier having a surface which is compatible with an adhesive having a low work to fracture. The article further comprises a graphic pattern formed on the adhesive.

22 Claims, 2 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 1

☐ 3. Document ID: US 5045141 A Relevance Rank: 52

L1: Entry 6 of 8 File: USPT Sep 3, 1991

US-PAT-NO: 5045141
DOCUMENT-IDENTIFIER: US 5045141 A

TITLE: Method of making solderable printed circuits formed without plating

DATE-ISSUED: September 3, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Salensky; George A.	Whitehouse Station	NJ	N/A	N/A
Rimsa; Stephen B.	Lebanon	NJ	N/A	N/A

US-CL-CURRENT: 156/240; 156/330, 174/257, 252/511, 252/514, 29/829

ABSTRACT:

Described herein is a composite structure comprising a dielectric substrate surface with an electrically conductive layer or pathway thereon. The pathway comprises a thermoset resin and sufficient electrically conductive metal, in the configuration of an electric circuit element, to provide desired properties and direct solderability. Direct solderability is achieved without plating the electric circuit element. It has a low surface resistivity, preferably less than 10 m ohm per square. Also described are conductive, thixotropic inks for printed circuit devices which include silver powder and silver flake in its composition. A thixotropic adhesive for bonding the electric circuit element to the dielectric substrate surface is also taught. A method for making the composite structure is further disclosed.

32 Claims, 6 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 1

☐ 4. Document ID: US 5352315 A Relevance Rank: 52

L1: Entry 5 of 8 File: USPT Oct 4, 1994

US-PAT-NO: 5352315
DOCUMENT-IDENTIFIER: US 5352315 A

TITLE: Biomedical electrode

DATE-ISSUED: October 4, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Carrier; Levi A.	Longmeadow	MA	N/A	N/A
Ruehlen; Jay M.	Longmeadow	MA	N/A	N/A
Sankalia; Nilay	Agawam	MA	N/A	N/A

US-CL-CURRENT: 156/267; 156/269, 156/277, 156/289, 156/324, 600/396, 607/149, 607/152

ABSTRACT:

A novel biomedical electrode comprising 1) a non-conductive backing layer with instructions printed on one surface, 2) an ink layer having either a) an ink comprising silver and silver salt, or b) a blend of inks including a first ink comprising silver and silver salt and a second ink comprising an inert carbon based material printed in a pattern onto the second surface of the non-conductive backing layer, 3) a conductive-adhesive electrolyte layer coated directly onto the inked surface of the non-conductive backing layer, and 4) a protective release liner which covers the conductive adhesive layer. Certain preferred embodiments correspond to situation wherein the body parts being monitored display diverse impedances. In those embodiments, parameters such as ink blend, ink amount (i.e., ink thickness and ink pattern) are varied in order to vary the impedance of a given electrode. These impedance distinct electrodes allow for the construction of a set of electrodes in which the varying impedances of the different electrodes compensate for the varying impedances of the different body parts. The construction of the electrode set also allows for a single line manufacturing process.

20 Claims, 21 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw. Desc | Image

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☐ 5. Document ID: US 5403422 A Relevance Rank: 52

L1: Entry 4 of 8 File: USPT Apr 4, 1995

US-PAT-NO: 5403422
DOCUMENT-IDENTIFIER: US 5403422 A

TITLE: Method for producing decorative plates

DATE-ISSUED: April 4, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kawai; Akira	Tokyo	N/A	N/A	JPX
Kubota; Hajime	Tokyo	N/A	N/A	JPX
Kawahara; Seiji	Tokyo	N/A	N/A	JPX

US-CL-CURRENT: 156/240; 156/234, 156/235, 156/307.3, 156/307.5

ABSTRACT:

A method for producing decorative plates, comprising the steps of (i) providing a transfer printing sheet which comprises (a) a substrate film comprising a synthetic resin, (b) a releasing layer formed, optionally, on the substrate film, (c) a pattern layer formed on the substrate film or on the releasing layer if it is provided, and (d) an adhesive layer formed on the pattern layer, (ii) superposing the transfer printing sheet on a base sheet, (iii) hot-pressing the transfer printing sheet and the base sheet, (iv) peeling the substrate film off the transfer printing sheet thereby to transfer the pattern layer on the base sheet, (v) impregnating the base sheet with a thermosetting resin, and (vi) hot-pressing the resulting base sheet to harden the thermosetting resin to give a decorative plate.

4 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image

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☐ 6. Document ID: US 5494180 A Relevance Rank: 52

L1: Entry 3 of 8 File: USPT Feb 27, 1996

US-PAT-NO: 5494180
DOCUMENT-IDENTIFIER: US 5494180 A

TITLE: Hybrid resistance cards and methods for manufacturing same

DATE-ISSUED: February 27, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Callahan; Stephen A.	Mesa	AZ	N/A	N/A

US-CL-CURRENT: 216/16; 29/620, 427/102, 427/103

ABSTRACT:

A hybrid resistance card (R-Card) is manufactured using a two-step process wherein an electrically conductive ink layer and an electrically resistive ink layer are printed onto a surface, which may be either a substrate or the part on which the R-Card is to be used. The conductive ink layer is selectively applied in a pattern of shapes to electrically short out portions of the resistive ink layer, thereby permitting the R-Card to have a predetermined resistive taper across its width according to a desired resistivity curve. The resistive ink layer comprises grid-like lines bordering and separating the conductive shapes. The resistive taper is substantially continuous along the length of the R-Card, at least linearly, though if the card is designed to cover an entire part, it is substantially continuous along a plurality of directions on the card, with the tapers being designed to round into one another. The inventive process permits much greater uniformity and predictability of result, as well as producing a much more versatile card, and is also much less expensive than currently employed processes.

13 Claims, 4 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 2

☐ 7. Document ID: US 5676785 A Relevance Rank: 52

L1: Entry 2 of 8 File: USPT Oct 14, 1997

US-PAT-NO: 5676785
DOCUMENT-IDENTIFIER: US 5676785 A

TITLE: Pressure-sensitive, adhesive-backed substrates and method for producing same

DATE-ISSUED: October 14, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Samonides; John	Streamwood	IL	N/A	N/A

US-CL-CURRENT: 156/244.11; 156/244.16, 156/244.19, 156/244.24, 156/269, 156/270, 156/277, 156/289, 427/208.4

ABSTRACT:

Pressure-sensitive adhesive-backed substances, such as printed labels, are produced on a release-coated carrier sheet with the printed label indicia sandwiched between the pressure-sensitive adhesive layer and an overlying protecting, preferably transparent, thermoplastic layer. The process for producing the adhesive backed substrate features the extrusion of a water-based, pressure-sensitive acrylic adhesive layer onto the substrate in as near a dry state as possible without heat. Additionally in the label-making process, the overlying thermoplastic layer also may be extruded. The extruded pressure-sensitive water-based acrylic adhesive preferably has a water content of on the order of about 10% by weight, which is just sufficient to permit the extrusion of the adhesive, so that minimal drying is required prior to subsequent processing steps such printing on the adhesive, in the case of the label-making process.

9 Claims, 12 Drawing figures Exemplary Claim Number: 4
Number of Drawing Sheets: 2

☐ 8. Document ID: US 5699733 A Relevance Rank: 52

L1: Entry 1 of 8 File: USPT Dec 23, 1997

US-PAT-NO: 5699733
DOCUMENT-IDENTIFIER: US 5699733 A

TITLE: Screen printing on film coated substrates

DATE-ISSUED: December 23, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chang; De-An	Hsinchu	N/A	N/A	TWX
Lu; Jin-Yuh	Taipei	N/A	N/A	TWX

US-CL-CURRENT: 101/129; 427/282, 427/383.1, 427/384

ABSTRACT:

An improved method of screen printing is described wherein a double sided tape (dry film) is applied between the substrate and the screened-on paste. Since the dry film ensures the adhesion of the paste, no minimum thickness of paste is needed to attain good adhesion. By applying a thin layer of paste multiple times any thickness over a wide range can be obtained. Once the desired thickness of paste has been applied, the dry film is removed by firing in an oxidizing atmosphere. The method is applicable to, among others, phosphors, resistive materials, and conductive materials.

16 Claims, 7 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 2